

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P777648

Luminaire Tested: LERS4D08D010-EC4DR200210IC9050-4LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LERS4D08D010-EC4DR200210IC9050-4LBS1B  
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 836.6 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



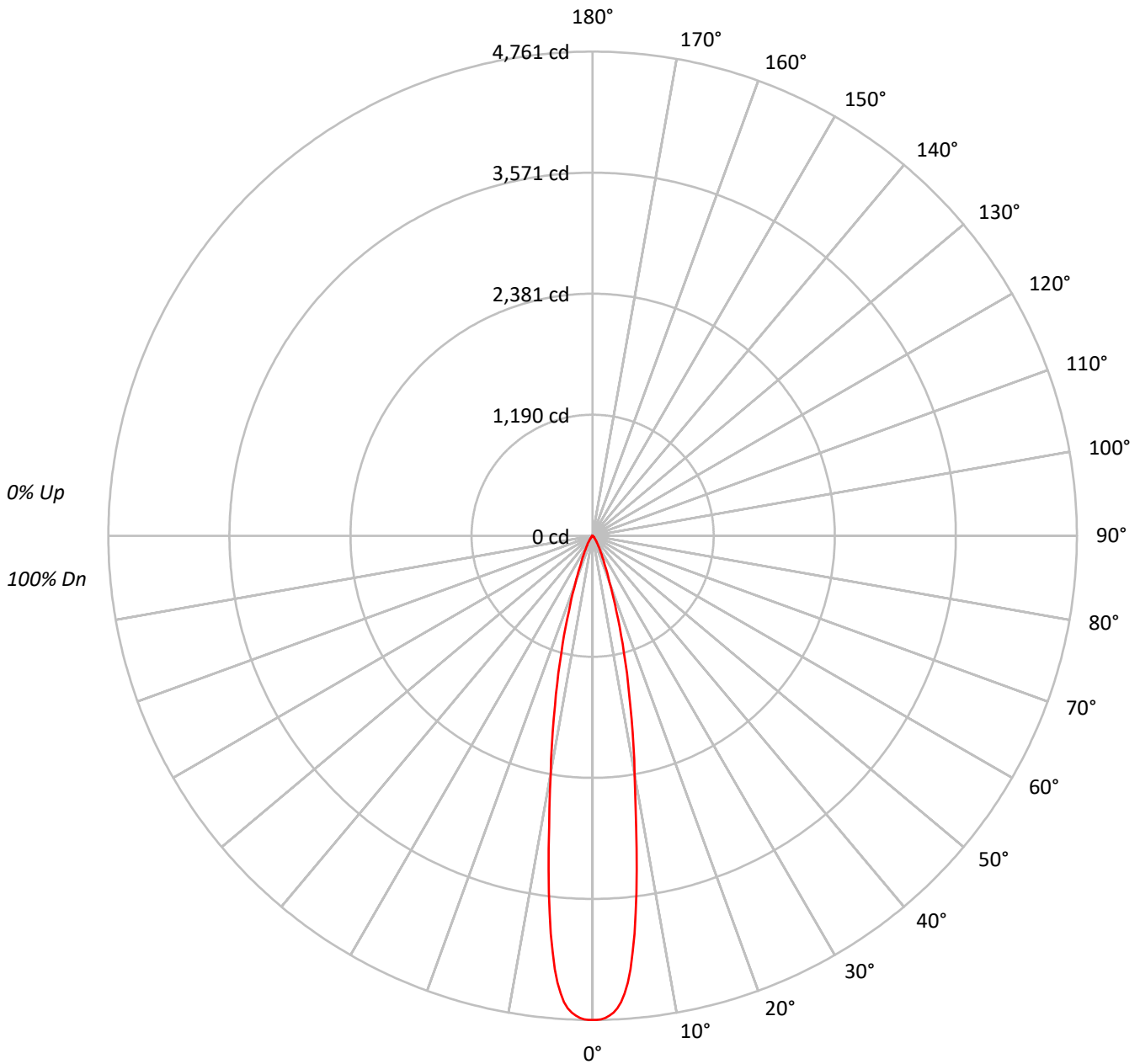
Downlight



TEST NUMBER: P777648

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9050-4LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P777648

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9050-4LBS1B

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100															
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	98	98	97															
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	98	96	95															
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	98	96	95															
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	93	91	89															
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	91	88	86															
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	88	86	84															
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	86	84	82															
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	84	82	80															
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	82	80	78															
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	81	78	76															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	520212
5°	469335
10°	263420
15°	133894
20°	56695
25°	26173
30°	13853
35°	7469
40°	3994
45°	2364
50°	1377
55°	724
60°	459
65°	336
70°	128
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2364 cd/sqm



TEST NUMBER: P777648

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9050-4LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.0	40.5
10°-20°	333.8	39.9
20°-30°	109.1	13.0
30°-40°	37.1	4.4
40°-50°	12.5	1.5
50°-60°	3.8	0.5
60°-70°	1.2	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	781.8	93.5
0°-40°	819.0	97.9
0°-60°	835.3	99.8
0°-90°	836.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	836.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4761	
5°	4279	339
15°	1184	334
25°	217	109
35°	56	37
45°	15	13
55°	4	4
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P777648

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9050-4LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4761.2
0.5°	4761.2
1°	4755.3
1.5°	4743.4
2°	4721.8
2.5°	4693.0
3°	4652.3
3.5°	4595.5
4°	4511.1
4.5°	4408.5
5°	4279.2
5.5°	4109.2
6°	3934.9
6.5°	3735.2
7°	3539.8
7.5°	3310.8
8°	3106.5
8.5°	2900.8
9°	2710.9
9.5°	2536.6
10°	2374.3
12.5°	1704.8
15°	1183.7
17.5°	773.3
20°	487.6
22.5°	315.9
25°	217.1
27.5°	152.6
30°	109.8
32.5°	78.9
35°	56.0
37.5°	39.0
40°	28.0
42.5°	20.4
45°	15.3
47.5°	11.9
50°	8.1
52.5°	5.1
55°	3.8
57.5°	3.0
60°	2.1
62.5°	1.7
65°	1.3



TEST NUMBER: P777648

CATALOG NUMBER: LERS4D08D010-EC4DR200210IC9050-4LBS1B

**CANDELA DISTRIBUTION (continued):**

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





67.5°		0.8
70°		0.4

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)